

A' -- The laser device 50 comprises an optical fiber structure 52 with an optical fiber 14 fixed in a bundled state after folding for a plurality of times, and an optical substrate 54 for holding the optical fiber structure 52 as well as introducing an exciting light to the optical fiber structure 52.--

IN THE CLAIMS:

Please cancel claims 1 and 2 and amend claims 3, and ~~5-8~~ as follows:

Sub B1  
A2  
3. (Amended) A laser device with an optical fiber containing a laser activating substance inside for emitting a laser beam from a distal end portion thereof, a part of said optical fiber being fixed in a dense state by an optical medium, wherein the optical medium is obtained by curing an oligomer substance so as to be changed to a polymer substance, said oligomer substance being substantially same as said polymer substance, consisting of at least one member selected from a group consisting of a polymethyl silsesquioxane, a polymethyl-hydride silsesquioxane, a polyphenyl silsesquioxane, a polyphenyl-methyl silsesquioxane, a phenyl silsesquioxane-dimethyl siloxane copolymer, a polyphenyl-vinyl silsesquioxane, polycyclohexyl silsesquioxane, a polycyclopentyl silsesquioxane, a polyhydride silsesquioxane, a poly(2-chloro ethyl) silsesquioxane, and a poly(2-bromo ethyl) silsesquioxane, or a mixture of said at least one member and a polysiloxane, said oligomer substance being changed to a substance containing a polymer.

Sub A1  
A3  
5. (Amended) The laser device according to any of claims ~~3~~ and ~~4~~, wherein the optical fiber is wound in a spiral shape or a coil-like shape.

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6. (Amended) The laser device according to any of claims 3 and 4, wherein the optical fiber is fixed in a bundled state.

A<sup>3</sup> control  
7. (Amended) The laser device according to any of claims 3 and 4, wherein a flat surface is formed on a side surface of the optical fiber such that the optical fiber is fixed in the state with the flat surface closely contacted with one another.

8. (Amended) A light signal amplifying device comprising the laser device according to any of claims 3 and 4, having another distal end portion of the optical fiber of the laser device as an input end of a signal light, and the distal end portion as an output end of an amplified light.

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